(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 6 May 2005 (06.05.2005)

PCT

(10) International Publication Number WO 2005/040678 A1

(51) International Patent Classification⁷: F23L 1/00, 1/02, 7/00

F23D 5/12,

(21) International Application Number:

PCT/AU2004/001467

(22) International Filing Date: 25 October 2004 (25.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2003905880

24 October 2003 (24.10.2003)

(71) Applicant (for all designated States except US): THE FIRE COMPANY PTY LTD [AU/AU]; 25 Kananook Avenue, Bayview, NSW 2104 (AU).

(72) Inventors; and

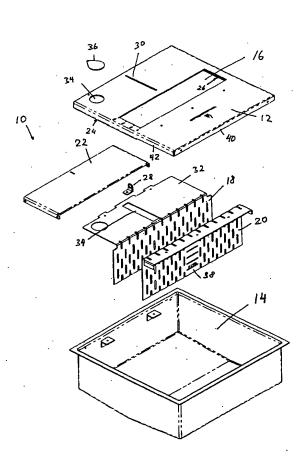
(75) Inventors/Applicants (for US only): BACKES, Uwe

[AU/AU]; 25 Kananook Avenue, Bayview, NSW 2104 (AU). THOMAS, Stephane Wilfrid [AU/AU]; 8A Piper Lane, Annandale, NSW 2038 (AU).

- (74) Agent: GRIFFITH HACK; 256 Adelaide Terrace, Perth, WA 6000 (AU).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: A BURNER FOR A HEATER



(57) Abstract: The present invention provides a burner (10) for a heater for combustion of a hydrocarbon liquid. The burner (10) comprises a combustion chamber having a combustion zone (17) for combusting the hydrocarbon liquid and at least one tank portion (13, 15) for containing an amount of the hydrocarbon liquid. The or each tank portion (13, 15) is positioned adjacent the combustion zone (17) and arranged to feed the hydrocarbon liquid into the combustion zone (17). The or each tank portion (13, 15) is at least in part filled with a filling material having a plurality of portions that pass through the interior of the or each tank portion (13, 15).